

Comparing the OCCAM and Calc/Solve solutions

schedules: c0501.skd modified from NGS card 050912XA.NGS (OCCAM)

software: OCCAM Kalman (standard solution no gradients)
Calc/Solve

clk: ASD $1e-14$ @ 50 min, random walk + integrated random walk

zwd: Onsala turbulence OCCAM

Onsala turbulence Calc Solve

wn: observation error of real CONT05 data

In Figure 1 you can see the difference between the CONT05 **real data**, of the OCCAM and Calc/Solve Solution. The baseline which is missing for the Calc/Solve solution is KOKEE – HARTRAO. This is the longest baseline of CONT05.

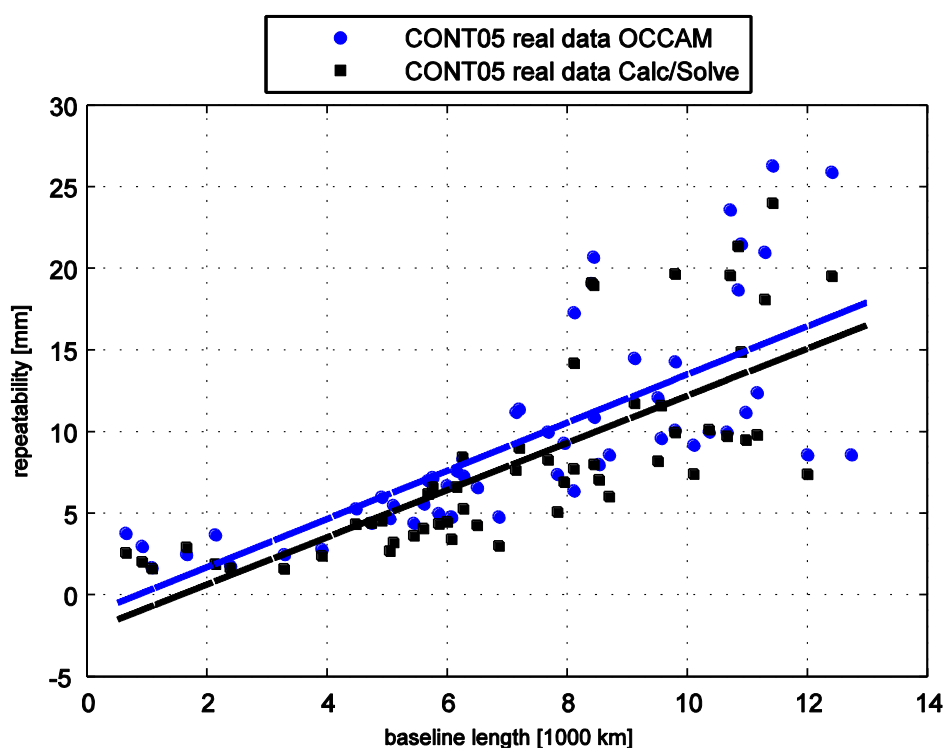


Fig. 1: Baseline length repeatabilities for the CONT05 **real data** estimated with OCCAM and with Calc/Solve.

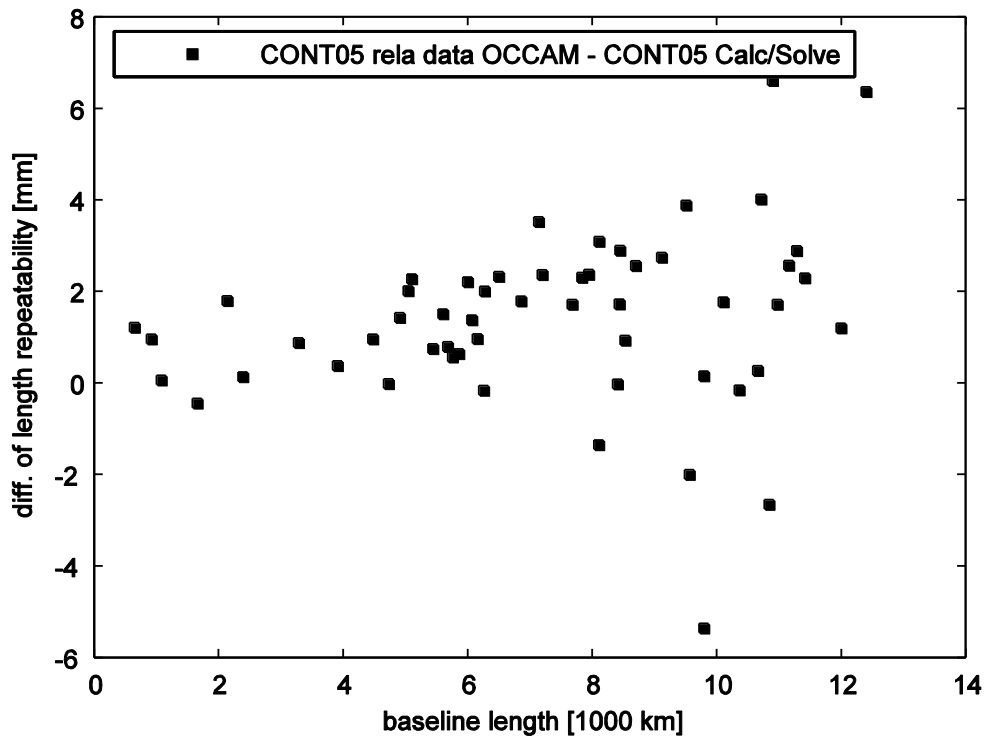


Fig. 2: Difference of the baseline length repeatabilities of CONT05 real data between OCCAM and Calc/Solve. The std is 1.9 mm and the mean is 1.4 mm.

The comparison of the simulated data simulated and estimated with OCCAM and Calc/Solve are given in Figure 3. The difference is shown in Figure 4. The std and mean of the difference between the OCCAM simulation and the Calc/Solve simulation is:
std = 2.9 mm, mean = 1.9 mm

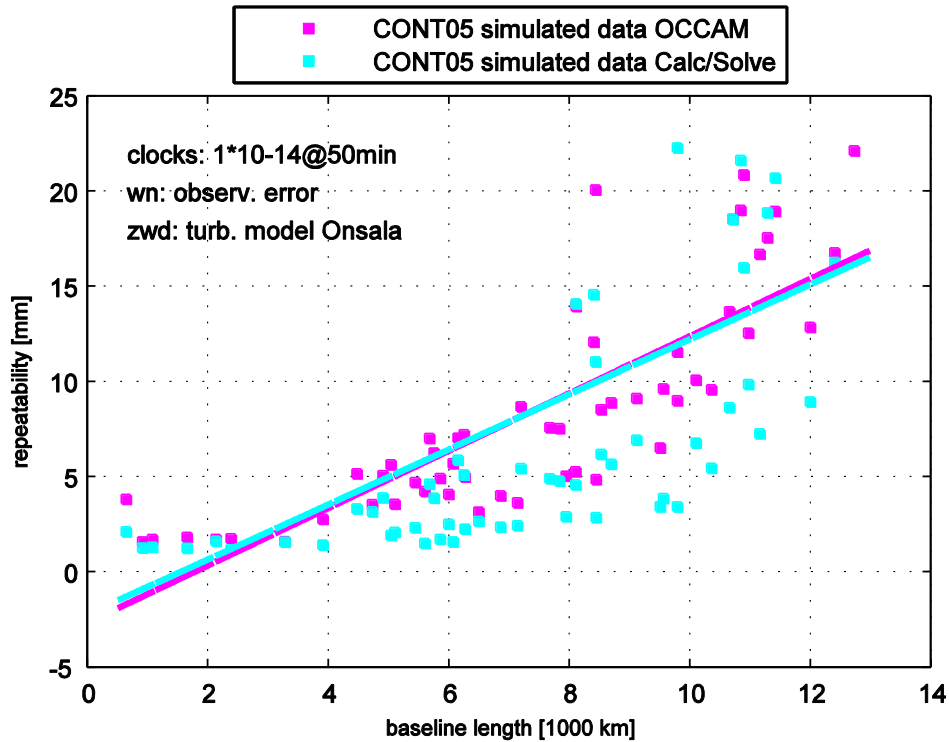


Fig. 3: Baseline length repeatabilities for the CONT05 **simulated data**, estimated as well as simulated with OCCAM and with Calc/Solve.

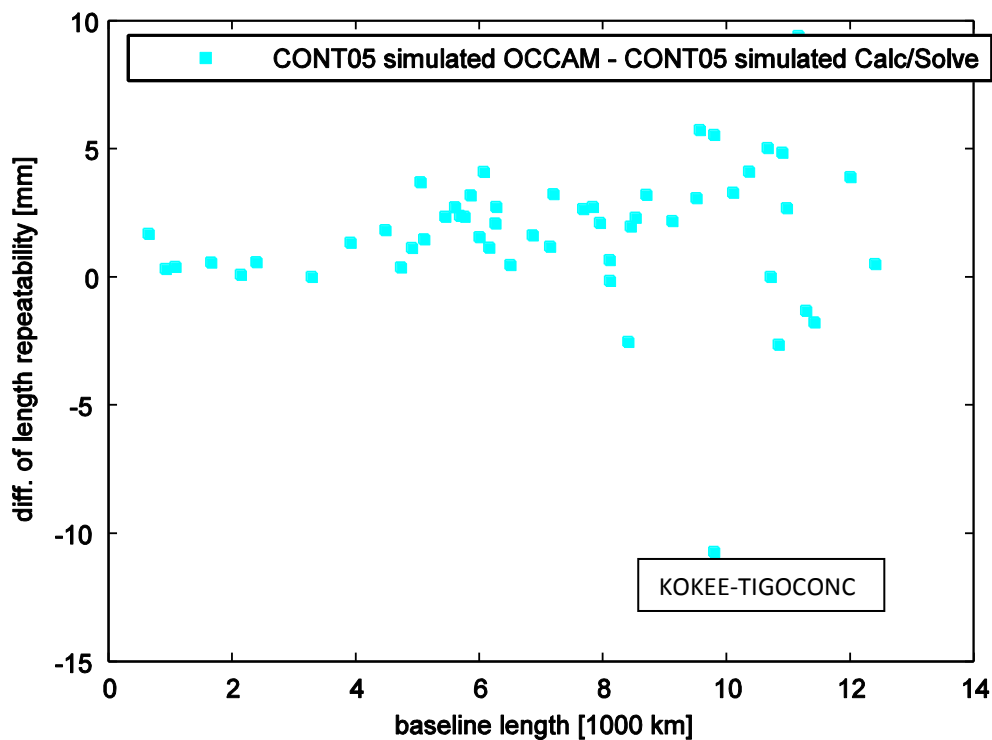


Fig. 4: Difference of the baseline length repeatabilities of CONT05 simulated data between OCCAM and Calc/Solve. The std is 2.9 mm and the mean is 1.9 mm.